

FIGURE 1

Dielectrophoretic spectrum for a human B-lymphocyte (medium 15mS/m). Relative frequency regions where differing cell properties dominate the response are shown.

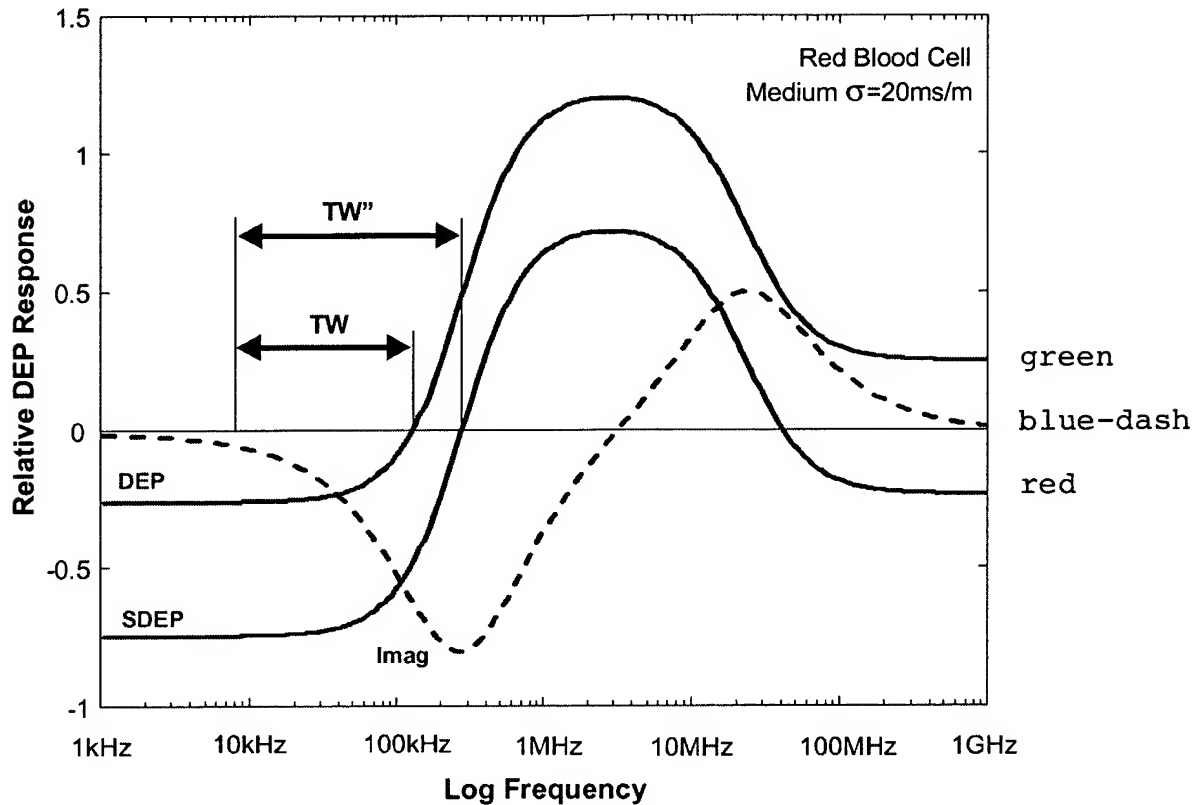


FIGURE 2

Dielectrophoretic spectrum. Blue-dash plot indicates the imaginary force  $F_{\text{DEP}}(\text{Im})$ , the green plot is the real part of the DEP force  $F_{\text{DEP}}(\text{Re})$ , with the red plot showing the superposition  $sF_{\text{DEP}}(\text{Re})$ . The travelling wave window is seen to be extended from TW to TWD'' as a result of superposition. The response shown is generated using a dielectric shell model of a red blood cell in a medium of 20mS/m and used for illustration.

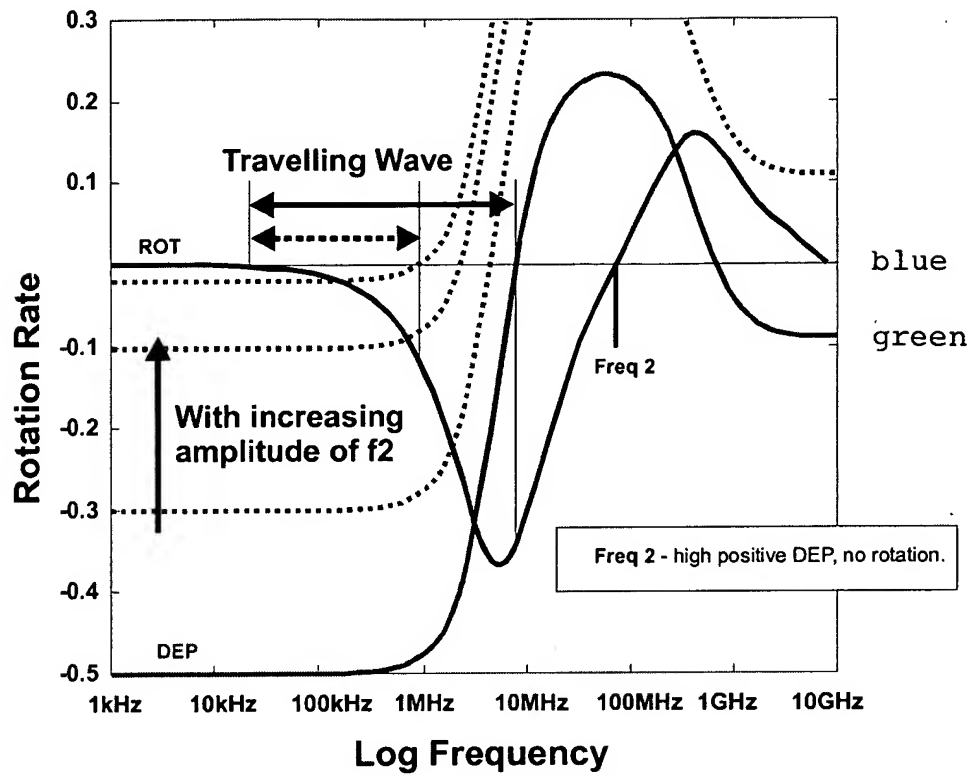


FIGURE 3

Dielectrophoretic spectrum, with superposition  
narrowing the TWD window.